

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 June 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into entire central and some parts of north Arabian Sea, entire Konkan including Mumbai and most parts of interior Maharashtra, some parts of south Gujarat region, some more parts of Telangana and Andhra Pradesh, most parts of central Bay of Bengal and some more parts of North Bay of Bengal today, the 9th June 2021.
- The Northern Limit of Monsoon (NLM) passes through lat. 21.5°N/ Long. 65°E, lat. 22.0°N/ Long. 70°E, Bulsar, Malegaon, Nagpur, Bhadrachalam, Tuni, lat. 19°N/ Long. 87.0°E, 22.5°N/89.5°E and 24.0°N/89.5°E and Bagdogra.
- Southwest Monsoon is likely to advance into remaining parts of Arabian Sea and Maharashtra, some more parts of Gujarat, remaining parts of Telangana, Andhra Pradesh, some parts of Madhya Pradesh and East Uttar Pradesh, entire Odisha, West Bengal, Jharkhand, Chhattisgarh and Bihar during next 2-3 days.
- A cyclonic circulation lies over Eastcentral and adjoining Northeast Bay of Bengal between 4.5 & 5.8 km above mean sea level. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. It is likely to be more marked during subsequent 24 hours. Under its influence; fairly widespread to widespread rainfall activity with isolated to scattered heavy to very heavy falls very likely over most parts of East India and adjoining Central India from 10th June onwards. Isolated extremely heavy falls also very likely over Odisha on 11th & 12th; over Chhattisgarh 11th-13th; over Vidarbha 12th & 13th, June 2021.
- Due to the strengthening of westerly winds along the west coast; enhanced rainfall activity with heavy falls likely to continue along the West coast including Maharashtra and Telangana during next 5 days. Isolated extremely heavy falls also very likely over Konkan & Goa during next 5 days.
- Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2-3 days.

- Dust raising strong surface winds (30-40 kmph) very likely to prevail over plains of Northwest India during 09th & 10th June.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Konkan & Goa, East Madhya Pradesh, Vidarbha, Coastal Karnataka, Kerala & Mahe, Chhattisgarh, Bihar, West Bengal & Sikkim, Arunachal Pradesh and Andaman & Nicobar Islands; at many places over Madhya Maharashtra, Odisha and Assam & Meghalaya; at a few places over Marathwada, West Madhya Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal, East Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Gujarat State, Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- Heavy to very heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Bihar, East Uttar Pradesh, Arunachal Pradesh, Telangana, and Heavy rainfall at isolated places over Konkan & Goa, Madhya Pradesh, Odisha, Marathawada, Tamilnadu, Puducherry & Karaikal, West Bengal & Sikkim, Assam & Meghalaya, Kerala & Mahe and Andaman & Nicobar Island.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Uttar Pradesh, Bihar, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Jharkhand, Chhattisgarh, Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Maximum Temperature Departures as on 08-06-2021: Maximum temperature were markedly above normal (5.1°C and more) most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and at isolated places over south Interior Karnataka and Interior Tamil Nadu; appreciably above normal (3.1°C to 5.0°C) at a few places over Kerala; above normal (1.6°C to 3.0°C) at most places over Punjab, Himachal Pradesh and Haryana, Chandigarh & Delhi; at many places over Uttarakhand; at a few places over Bihar, West Uttar Pradesh and Coastal Andhra Pradesh & Yanam and at isolated places over Gangetic West Bengal, West Rajasthan, Odisha and coastal Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha; at a few places over Andaman & Nicobar Island and East Rajasthan and at isolated places over

Chhattisgarh; below normal (-1.6°C to -3.0°C) at most places over Madhya Maharashtra, Marathwada and Madhya Pradesh; at many places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and North Interior Karnataka; at a few places over Arunachal Pradesh, Assam & Meghalaya, East Uttar Pradesh, Gujarat Region and Telangana and at isolated places over Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.1°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 09-06-2021: Minimum temperatures are markedly above normal (5.1°C and more) at a few places over Himachal Pradesh and Punjab and at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, West Uttar Pradesh and Haryana, Chandigarh & Delhi and at isolated places over East Uttar Pradesh and above normal (1.6°C to 3.0°C) at isolated places over East Rajasthan, Coastal Andhra Pradesh and Lakshadweep. They are appreciably below normal (-3.1°C to 5.0°C) at many places over Vidarbha; at a few places over East Madhya Pradesh, Bihar and Telangana and at isolated places over West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Konkan & Goa and Marathwada; at a few places over Coastal Karnataka, Chhattisgarh and west Bengal & Sikkim and at isolated places over Gangetic West Bengal and near normal over rest of the country. Today, the lowest minimum temperature of 18.6°C is reported at Shirali (Coastal Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 09 June (Day 1):Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over West Madhya Pradesh and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heat Wave Conditions at isolated places very likely over West Rajasthan. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Konkan & Goa; Heavy to Very Heavy Rainfall at isolated

places over Telangana and Heavy Rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Madhya Maharashtra. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south Bay of Bengal and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 10 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Konkan & Goa; Heavy to Very Heavy Rainfall at isolated places over Chhattisgarh and Odisha and Heavy Rainfall at isolated places over East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Telangana, Coastal Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south & central Bay of Bengal ; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 11 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand and Uttar Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Lakshadweep. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Odisha and Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely

over Chhattisgarh; Heavy to Very Heavy Rainfall at isolated places over Gangetic West Bengal and Telangana and Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Assam & Meghalaya, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, central and North Bay of Bengal and along & off Odisha-Andhra Pradesh-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala-Karnataka coasts. Fishermen are advised not to venture into these areas.

- 12 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar Islands and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Telangana, Interior Karnataka and Lakshadweep. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Chhattisgarh and Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Vidarbha and Odisha; Heavy to Very Heavy Rainfall at a few places over Telangana and Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Heavy Rainfall at isolated places over Jammu division, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, West Bengal & Sikkim, Gujarat Region, Marathwada, North Interior Karnataka, Kerala & Mahe and Lakshadweep. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, central and North Bay of Bengal and along & off Odisha-Andhra Pradesh-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala-Karnataka coasts. Fishermen are advised not to venture into these areas.
- 13 June (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Vidarbha, Chhattisgarh,

Bihar, Jharkhand, Andaman & Nicobar Islands and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior and Lakshadweep. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Chhattisgarh and Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Vidarbha; Heavy to Very Heavy Rainfall at a few places over Telangana and Coastal Karnataka and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Odisha, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat Region, Marathwada, North Interior Karnataka and Lakshadweep.

- The weather outlook for seven days i.e., 09 Jun to 17 Jun 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

West Bengal

Weather condition:

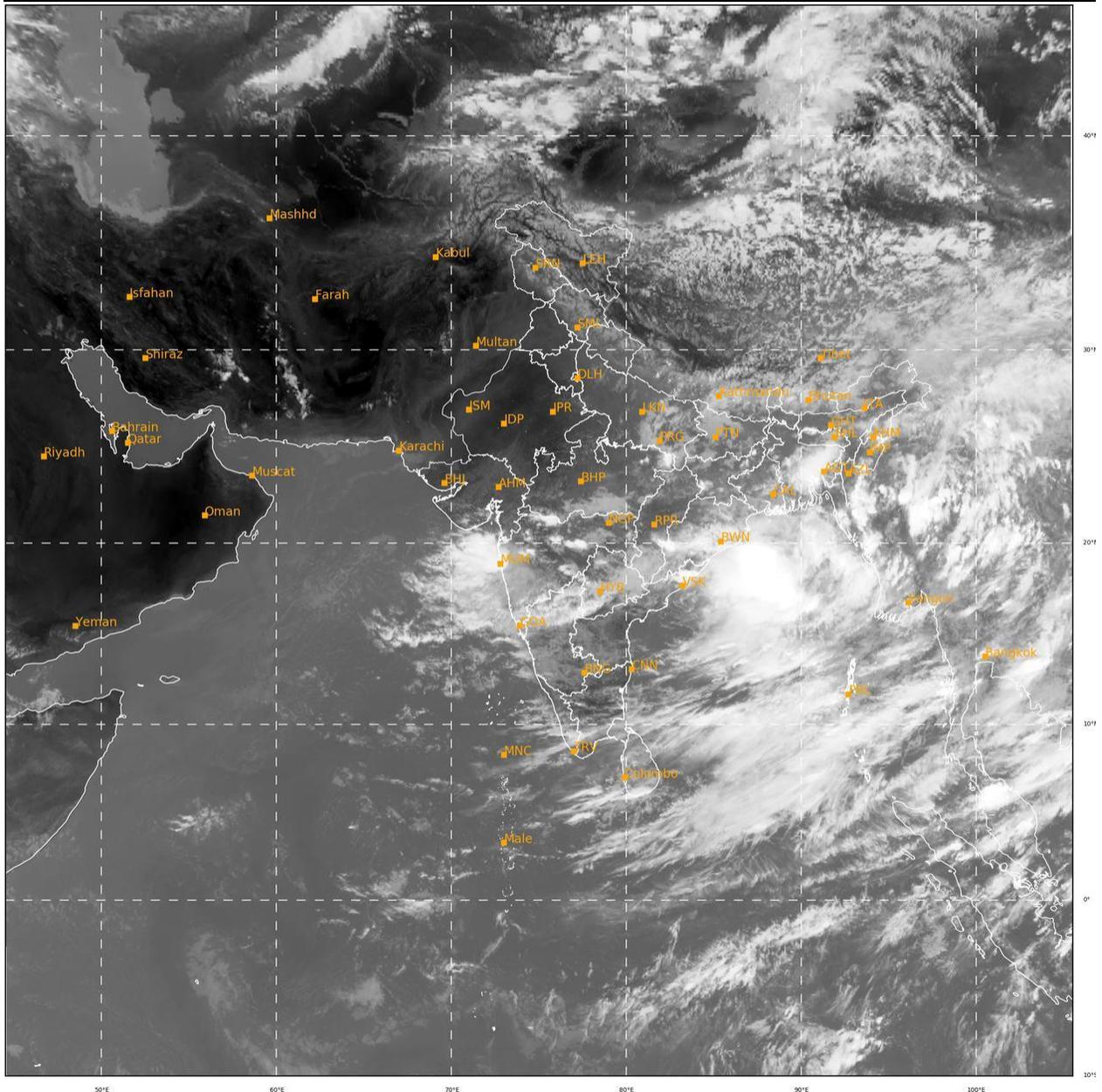
Weather conditions during the 22nd week at Mohanpur, West Bengal: Maximum temperature: 29.5 to 34.0 0C, minimum temperature: 25.0 to 27.0 0C, bright sun shine hours: 0.0 to 9.3 hours, Morning-time relative Humidity: 88 to 97 %, after noon-time R.H: 75 to 92%, weekly total pan evaporation: 15.7 mm, total weekly rainfall is 103.5 mm and average daily wind speed is around 2.82 km/h.

Contingency measure:

- Rice: Fallow filed for aman paddy cultivation in coming kharif season Fully submerged by saline water of sea. Where fallow filed for aman paddy cultivation is found completely flooded due to high tide along with cyclone ?Yaas? wait for drain out or use pump machine for water removal. After removal of water for decreasing the salinity apply and incorporate Gypsum@50-100kg per bigha in the soil or apply any organic manure like compost, vermicompost etc. Collect seeds of green manure like dhaincha, sesbania etc. --After complete drain out of water start to sow these seeds.;
- Cucumber: Cucumber (Flowering/fruited) Submerged at the base by saline water of sea. Immediate drain out the water through drainage channel. Cucurbits in low land area completely damaged by saline water. Where cucurbits in upland area was not affected by saline water immediate drain out the rain water. Apply fungicide after water removal for preventing wilting.;
- Betelvine: Betel vine Submerged at the base by saline water of sea. Immediate drain out the flood water. Pluck the mud affected leaves For next season cultivation cut the tip of the survived betel vines and plant those in 1:1 mixture of soil and cow-dung slurry and 20-25 gm. of lime in the perforated poly-packets.;
- Crap: Remove all the broken twigs, dead fish from the water after cyclone. Where pond water became overflow due to sea water intrusion, immediate remove all the water by using pump so that rain water can be store for fish cultivation. After removal of water apply bleaching powder for purifying the pond. After the cyclone where water level will be up to 5 feet apply Potassium Permanganet@1kg per 0.33acre. If poisonous gas form after cyclone apply dolomite@1kg per 0.33acre.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

09-06-2021/(0830 to 0857) GMT
09-06-2021/(1400 to 1427) IST



222

943

IMD, DELHI

Figure: 1. Latest available satellite picture as on 09 Jun 2021 at 1427 Hrs (IST). (Source: IMD).

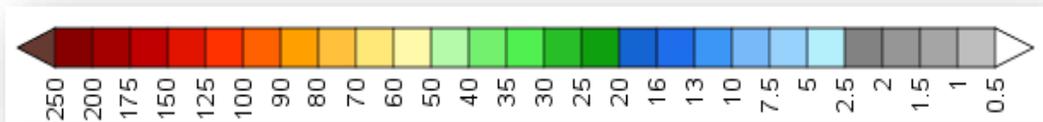
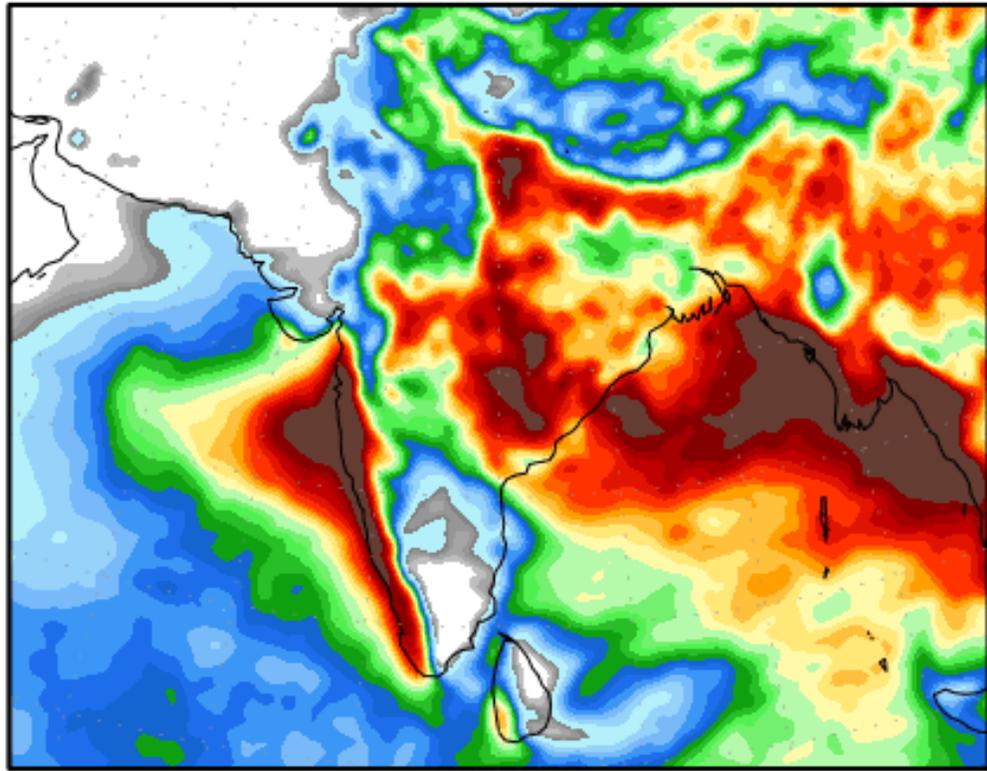


Figure:2. Precipitation forecast for 09 Jun to 17 Jun 2021 (Source: NOAA NCEP).

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